

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027870

Luminaire Tested: S125DIP-B375D375UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027870
REPORT IS A COMBINATION OF REPORTS P1001986 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

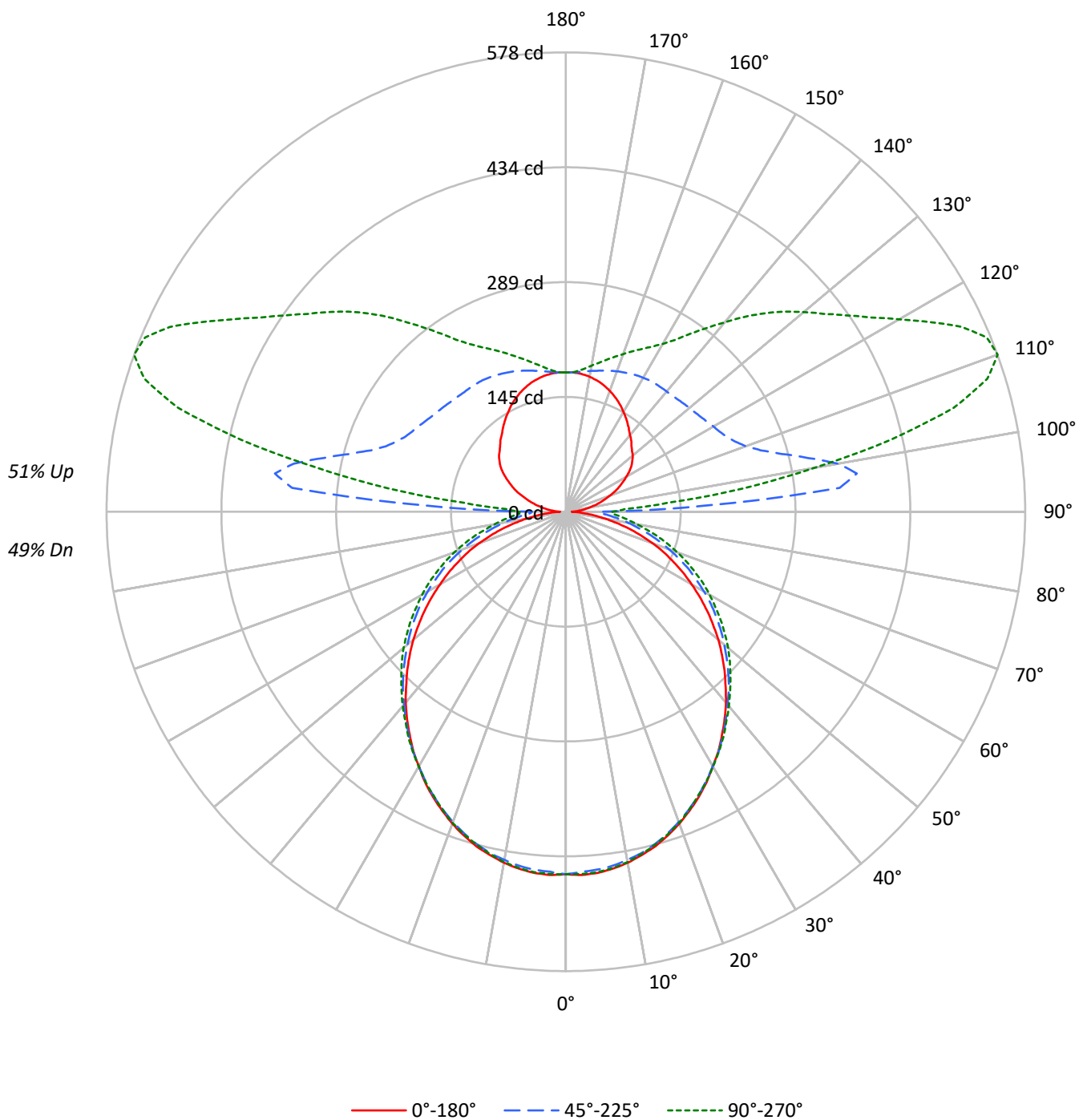
Lumens per Lamp: N/A
Luminaire Lumens: 2733.7 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	39		
2	88	80	74	68	80	74	68	63	62	58	54	51	48	46	41	39	37	32		
3	80	70	63	56	73	65	58	53	54	49	45	45	41	38	36	34	31	27		
4	73	62	54	48	67	57	50	44	48	43	38	40	36	33	32	29	27	23		
5	67	55	47	41	61	51	44	38	43	37	33	36	31	28	29	26	23	20		
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	21	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	14		
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12		
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.6
10°-20°	122.5	4.5
20°-30°	182.2	6.7
30°-40°	215.8	7.9
40°-50°	223.1	8.2
50°-60°	205.5	7.5
60°-70°	166.1	6.1
70°-80°	111.2	4.1
80°-90°	58.2	2.1
90°-100°	164.4	6.0
100°-110°	298.2	10.9
110°-120°	272.2	10.0
120°-130°	216.4	7.9
130°-140°	170.5	6.2
140°-150°	126.5	4.6
150°-160°	88.5	3.2
160°-170°	52.2	1.9
170°-180°	17.0	0.6
0°-30°	347.9	12.7
0°-40°	563.7	20.6
0°-60°	992.3	36.3
0°-90°	1327.7	48.6
90°-120°	734.8	26.9
90°-150°	1248.3	45.7
90°-180°	1406.0	51.4
0°-180°	2733.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	25	42	54	58	6
95°	18	52	346	185	129	17
105°	44	67	281	538	505	46
115°	74	92	223	469	550	73
125°	101	117	208	370	431	89
135°	117	140	200	305	353	91
145°	136	155	197	247	273	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	7.6	24.6	42.4	54.4	58.2
92.5°	11.6	48.2	176.0	82.4	74.0
95°	17.5	51.8	345.9	184.6	128.7
97.5°	23.4	53.4	369.3	296.9	225.5
100°	29.7	57.1	347.9	400.8	316.5
102.5°	36.7	62.0	312.5	488.4	419.0
105°	44.0	67.0	281.0	538.2	505.2
107.5°	51.0	72.9	257.2	551.2	556.0
110°	58.6	79.2	240.9	535.0	578.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.7	85.5	230.7	503.6	573.2
115°	74.1	91.9	223.2	469.1	550.1
117.5°	80.7	98.6	218.3	437.2	516.8
120°	87.8	105.2	214.4	410.4	484.1
122.5°	94.8	111.3	210.8	388.2	455.1
125°	100.8	117.3	207.6	370.3	430.9
127.5°	105.3	123.6	205.1	354.3	409.0
130°	109.9	130.0	203.1	338.5	390.9
132.5°	113.0	135.6	201.3	321.7	372.7
135°	116.9	139.9	199.5	305.2	353.2
137.5°	121.8	144.4	198.4	288.4	332.6
140°	125.6	148.0	197.5	272.8	311.3
142.5°	130.5	151.1	197.0	259.1	291.5
145°	135.5	154.7	196.6	247.0	273.4
147.5°	140.4	157.9	195.9	236.9	256.7
150°	145.0	160.7	194.8	228.8	243.7
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)